BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to CC Road and CC Drains at Chikkabettahalli Village (Newly added Area) at MS Palya Behind Somanna's Appartments in Ward No. 11 (Kuvempuangara), Vidyaranyapura Sub Division.**

							Estimate Cost:		2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	For CC Road		1	125.00	5.00	0.15	93.75		
			1	110.00	5.50	0.15	90.75		
	For Culvert		3	6.20	2.00	1.05	39.06		
	CC Drain		1	55.00	1.00	0.80	44.00		
							265.56	90.72	**24092.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 159 / Item No. 19.60 / PWD SR 2013-14**	Cum							
	For Road Work		1	125.00	5.00	0.25	156.25		
			1	110.00	5.50	0.25	151.25		
							307.50	163.24	**50196.00**
	Basic Rate	154.00							
	Area Weightage @ 6%	9.24							
	Total	**163.24**							
3	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 /Item No. 4.3 PWD SR - 2013-14**	Cum							
	For CC Road		1	125.00	5.00	0.15	93.75		
			1	110.00	5.50	0.15	90.75		
	Culvert		3	6.20	1.80	0.15	5.02		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	CC Drain		1	55.00	0.90	0.15	7.43		
							197.92	4290.84	**849243.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
4	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26 / Item No. 5.12/ PWD SR 2013-14**	Cum							
	Culvert		2x3	6.20	0.60	0.90	20.09		
							20.09	4423.68	**88863.00**
	Basic Rate	4096.00							
	Area Weightage @ 8%	327.68							
	Total	**4423.68**							
5	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.3 / PWD SR 2013-14**	Sqm							
	Culvert		2x3	6.20		0.90	33.48		
							33.48	77.76	**2603.00**
	Basic Rate	72.00							
	Area Weightage @ 8%	5.76							
	Total	**77.76**							
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2013-14**	Cum							
	Culvert Coping		2x3	6.20	0.60	0.10	2.23		
			2x3	6.20	2.00	0.20	14.88		
							17.11	4779.00	**81778.00**
	Basic Rate	4425.00							
	Area Weightage @ 8%	354.00							
	Total	**4779.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	For Culvert Covering Slab		3	6.20		0.60	11.16		
			2x3	6.20		0.25	9.30		
			2x3	1.80		0.25	2.70		
	For CC Drain		4	55.00		0.70	154.00		
			1	55.00		0.90	49.50		
			2	55.00		0.15	16.50		
	Above Existing SSM Drain		1	10.00		0.90	9.00		
							263.16	271.08	**71337.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
	Culvert Covering Slab		3	6.20	1.80	0.25	8.37		
	Bottom		1	55.00	0.90	0.15	7.43		
	Side Walls		2	55.00	0.15	0.45	7.43		
	Covering Slab		1	55.00	0.90	0.10	4.95		
	Existing SSM Drain Covering Slab		1	10.00	0.90	0.10	0.90		
							29.17	5639.76	**164512.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
9	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14 TMT bar Fe 500**	Qntl							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			0.90	29.17			26.25		
							26.25	7450.92	**195609.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
10	KSRRB M2600-3: Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 251 / Item No. 31.3 PWD SR 2013-14**	M							
			13	5.00			65.00		
			11	5.50			60.50		
							125.50	137.16	**17214.00**
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	**137.16**							
11	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
	For CC Road		1	125.00	5.00	0.10	62.50		
			1	110.00	5.50	0.10	60.50		
							123.00	6464.88	**795180.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	**6464.88**							
12	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **190 / Item No. 22.7/ PWD SR 2013-14**	Sqm							
			1	125.00	5.00		625.00		
			1	110.00	5.50		605.00		
							1230.00	91.80	**112914.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
13	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**265.56**	72.71	**19308.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
14	For Third Part QC Inspection Charges @ 1% of Estimate Cost								**25000.00**
15	Miscellaneous and other Charges	L/S							**2142.00**
								Total	**2500000.00**
	(Rs. Twenty Five Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer 17/12/2013
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 25.00
Twenty Five Lakhs
Registered as EE No: 226/13-14 Dated Subject to conditions contained enclosed memo. No 226/13-14 Dt 23-12-13
AE/JE
Superintendent Engineer

ADMINISTRATIVELY SANCTIONED Rs. 25.00
Rupees Twenty Five lakhs only/-
Under
Superintendent Engineer
Registered as EE ( ) No
Subject to conditions contained in enclosed memo EE ( ) No
Dt Estimate A/Sanctioned
Addl com(y) A.S No 673/13-14
Dated 23.12.13 Rs 25.00

Addl. Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92